

20170310000
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

| DEVICE | CUSTOMER PART NUMBER |
|---------------|-----------------------------|
| AM26C31CN | null |
| AM26C31IN | null |
| AM26C32CN | null |
| AM26C32IN | null |
| AM26LS31CN | null |
| AM26LS32ACN | null |
| AM26LS33ACN | null |
| BQ2000PN-B5 | null |
| BQ2000TPN-B5 | null |
| BQ2002TPN | null |
| BQ2003PN | null |
| BQ2031PN-A5 | null |
| BQ2054PN | null |
| CD14538BE | null |
| CD4001BE | null |
| CD4001UBE | null |
| CD4002BE | null |
| CD4007UBE | null |
| CD40102BE | null |
| CD40103BE | null |
| CD40106BE | null |
| CD40106BEE4 | null |
| CD40107BE | null |
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| CD40110BE | null |
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| CD4011UBE | null |
| CD4012BE | null |
| CD4013BE | null |
| CD4013BEE4 | null |
| CD4014BE | null |
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| CD40161BE | null |
| CD4016BE | null |
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| CD4017BE | null |
| CD4017BEE4 | null |
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| CD40192BE | null |
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| CD4026BE | null |
| CD4027BE | null |
| CD4028BE | null |
| CD4029BE | null |
| CD4029BEE4 | null |
| CD4030BE | null |
| CD4035BE | null |

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| CD4042BE | null |
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| CD4044BE | null |
| CD4045BE | null |
| CD4046BE | null |
| CD4047BE | null |
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| CD4069UBE | null |
| CD4070BE | null |
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| CD74ACT14E | null |
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| CY74FCT573ATPC | null |
| DAC7614P | null |
| DAC7614PB | null |
| ICL7652P | null |
| INA110KP | null |
| INA116PA | null |
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| L293DNEE4 | null |
| L293NE | null |
| LF347BN | null |
| LF347N | null |
| LF353P | null |
| LF411CP | null |
| LF412CP | null |
| LM211P | null |
| LM224N | null |
| LM239N | null |
| LM248N | null |
| LM258AP | null |
| LM258P | null |
| LM2900N | null |
| LM2901N | null |

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| LM2903P | null |
| LM293P | null |
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| LM318P | null |
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| LM339AN | null |
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| LM348N | null |
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| LM358APE4 | null |
| LM358P | null |
| LM3900N | null |
| LM392P | null |
| LM393AP | null |
| LM393P | null |
| LM833P | null |
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| LP324N | null |
| LP324NE4 | null |
| LP339N | null |
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| LT1013DIP | null |
| LT1013DP | null |
| LT1014CN | null |
| LT1014DIN | null |
| LT1014DN | null |
| LT1054CP | null |
| LT1054IP | null |
| MAX232ECN | null |
| MAX232EIN | null |
| MAX232IN | null |
| MAX232N | null |
| MC1458P | null |
| MC1488N | null |
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| MC33063AP | null |
| MC33078P | null |
| MC3403N | null |
| MC34063AP | null |
| MC34063APE4 | null |
| MC3486N | null |
| MC3487N | null |
| MPC508AP | null |
| MPC509AP | null |
| MSP430F2001TN | null |
| MSP430F2012IN | null |
| MSP430F2012TN | null |
| MSP430F2013IN | null |
| MSP430F2013TN | null |
| MSP430G2001IN14 | null |
| MSP430G2102IN20 | null |
| MSP430G2112IN20 | null |
| MSP430G2132IN20 | null |
| MSP430G2152IN20 | null |
| MSP430G2202IN20 | null |
| MSP430G2203IN20 | null |
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| NE5532AP | null |
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| NE5534AP | null |
| NE5534P | null |
| NE555P | null |
| NE555PE4 | null |
| NE556N | null |
| OP07CP | null |
| OP07DP | null |
| OP07DPE4 | null |
| P82B715P | null |
| P82B96P | null |
| PCF8574AN | null |
| PCF8574N | null |
| RC4136N | null |
| RC4558IP | null |
| RC4558P | null |
| RC4560IP | null |
| RC4580IP | null |
| SA555P | null |
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| SG3524N | null |
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| SN65HVD06P | null |
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| SN74ALS573CN | null |
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| SN74ALS640BN | null |
| SN74ALS641A-1N | null |
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| SN74HCT74N | null |
| SN74HCU04N | null |
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| SN75463P | null |
| SN75ALS057N | null |
| SN75ALS1177N | null |
| SN75ALS172AN | null |
| SN75ALS175N | null |
| SN75ALS181N | null |
| SN75ALS194N | null |
| SN75ALS195N | null |

| | |
|----------------|------|
| SN75ALS197N | null |
| SN75C1154N | null |
| SN75C185N | null |
| SN75C189N | null |
| SN75LBC173N | null |
| SN75LBC174N | null |
| SN75LBC175N | null |
| TL026CP | null |
| TL032AIP | null |
| TL032IP | null |
| TL052IP | null |
| TL054IN | null |
| TL061ACP | null |
| TL061CP | null |
| TL061IP | null |
| TL062BCP | null |
| TL064BCN | null |
| TL082BCP | null |
| TL084BCN | null |
| TL1451ACN | null |
| TL1454ACN | null |
| TL2575-05IN | null |
| TL2575-12IN | null |
| TL2575-15IN | null |
| TL2575-33IN | null |
| TL2575-ADJIN | null |
| TL2575HV-05IN | null |
| TL2575HV-12IN | null |
| TL2575HV-15IN | null |
| TL2575HV-33IN | null |
| TL2575HV-ADJIN | null |
| TL2842P | null |
| TL2844P | null |
| TL3472IP | null |
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| TL3474AIN | null |
| TL3474CN | null |
| TL3474IN | null |
| TL3844P | null |
| TL431ACP | null |
| TL431BCP | null |
| TL431BIP | null |
| TL499ACP | null |
| TL5580AIP | null |
| TL594IN | null |
| TL712CP | null |
| TL751L10CP | null |
| TL7660CP | null |
| TL7660IP | null |
| TL7702BCP | null |
| TL7705BIP | null |
| TL7709ACP | null |
| TL7712ACP | null |
| TL7726IP | null |
| TL7733BCP | null |
| TL7733BIP | null |
| TL7759CP | null |
| TL7770-5CN | null |
| TLC070AIP | null |
| TLC071AIP | null |
| TLC071IP | null |
| TLC072CP | null |
| TLC072IP | null |
| TLC074AIN | null |
| TLC074IN | null |
| TLC080AIP | null |
| TLC080IP | null |
| TLC081AIP | null |
| TLC0820ACN | null |
| TLC082AIP | null |

| | |
|------------|------|
| TLC082CP | null |
| TLC0831CP | null |
| TLC0832CP | null |
| TLC0832IP | null |
| TLC0838CN | null |
| TLC0838IN | null |
| TLC083CN | null |
| TLC083IN | null |
| TLC084CN | null |
| TLC085AIN | null |
| TLC085CN | null |
| TLC1078CP | null |
| TLC1079CN | null |
| TLC1079IN | null |
| TLC1542IN | null |
| TLC1543IN | null |
| TLC2202IP | null |
| TLC2252CP | null |
| TLC2252IP | null |
| TLC2254CN | null |
| TLC2262IP | null |
| TLC251ACP | null |
| TLC251BCP | null |
| TLC251CP | null |
| TLC252CP | null |
| TLC2543CN | null |
| TLC254ACN | null |
| TLC254BCN | null |
| TLC254CN | null |
| TLC25L2CP | null |
| TLC25L4BCN | null |
| TLC25M4CN | null |
| TLC2652ACN | null |
| TLC2652ACP | null |
| TLC2652AIN | null |
| TLC2652CN | null |
| TLC2654ACP | null |
| TLC2654AIP | null |
| TLC2654CN | null |
| TLC2654CP | null |
| TLC2654IP | null |
| TLC271BIP | null |
| TLC272ACP | null |
| TLC272AIP | null |
| TLC272BIP | null |
| TLC274BIN | null |
| TLC277IP | null |
| TLC27L1ACP | null |
| TLC27L1CP | null |
| TLC27L2AIP | null |
| TLC27L2BCP | null |
| TLC27L2BIP | null |
| TLC27L2IP | null |
| TLC27L4AIN | null |
| TLC27L4BCN | null |
| TLC27L4BIN | null |
| TLC27M2AIP | null |
| TLC27M2BCP | null |
| TLC27M2IP | null |
| TLC27M4ACN | null |
| TLC27M4BIN | null |
| TLC27M4IN | null |
| TLC27M9CN | null |
| TLC352CP | null |
| TLC354CN | null |
| TLC3704IN | null |
| TLC372IP | null |
| TLC393CP | null |
| TLC540IN | null |
| TLC548CP | null |

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| TLC548IP | null |
| TLC549CP | null |
| TLC549IP | null |
| TLC552CN | null |
| TLC5620IN | null |
| TLC5628IN | null |
| TLC59210IN | null |
| TLC59211IN | null |
| TLC59213AIN | null |
| TLC59213IN | null |
| TLC7226IN | null |
| TLC7528EN | null |
| TLC7628CN | null |
| TLC7701IP | null |
| TLC7701QP | null |
| TLC7703IP | null |
| TLC7705IP | null |
| TLC7733IP | null |
| TLC7733QP | null |
| TLE2021ACP | null |
| TLE2022IP | null |
| TLE2024AIN | null |
| TLE2024IN | null |
| TLE2064ACN | null |
| TLE2064IN | null |
| TLE2071AIP | null |
| TLE2074ACN | null |
| TLE2074IN | null |
| TLE2081ACP | null |
| TLE2082IP | null |
| TLE2084CN | null |
| TLE2141IP | null |
| TLE2144ACN | null |
| TLE2144AIN | null |
| TLE2426IP | null |
| TLS1233N | null |
| TLV0831CP | null |
| TLV0832CP | null |
| TLV0834IN | null |
| TLV1543CN | null |
| TLV1549CP | null |
| TLV1549IP | null |
| TLV2241IP | null |
| TLV2252AIP | null |
| TLV2252IP | null |
| TLV2262AIP | null |
| TLV2262IP | null |
| TLV2302IP | null |
| TLV2324IN | null |
| TLV2332IP | null |
| TLV2342IP | null |
| TLV2352IP | null |
| TLV2354IN | null |
| TLV2362IP | null |
| TLV2373IN | null |
| TLV2375IN | null |
| TLV2401IP | null |
| TLV2402IP | null |
| TLV2404IN | null |
| TLV2450AIP | null |
| TLV2450CP | null |
| TLV2451AIP | null |
| TLV2451IP | null |
| TLV2452AIP | null |
| TLV2452IP | null |
| TLV2453IN | null |
| TLV2454IN | null |
| TLV2455AIN | null |
| TLV2460AIP | null |
| TLV2460CP | null |

| | |
|------------|------|
| TLV2460IP | null |
| TLV2461AIP | null |
| TLV2461CP | null |
| TLV2461IP | null |
| TLV2462AIP | null |
| TLV2463CN | null |
| TLV2463IN | null |
| TLV2464IN | null |
| TLV2465IN | null |
| TLV2470AIP | null |
| TLV2471AIP | null |
| TLV2471CP | null |
| TLV2471IP | null |
| TLV2472AIP | null |
| TLV2473AIN | null |
| TLV2474AIN | null |
| TLV2474CN | null |
| TLV2474IN | null |
| TLV2475CN | null |
| TLV2543CN | null |
| TLV2543IN | null |
| TLV2760IP | null |
| TLV2761IP | null |
| TLV2770AIP | null |
| TLV2770IP | null |
| TLV2773AIN | null |
| TLV2774AIN | null |
| TLV2775AIN | null |
| TLV2775CN | null |
| TLV2775IN | null |
| TLV2782IP | null |
| TLV2783IN | null |
| TLV3401IP | null |
| TLV3402IP | null |
| TLV3404IN | null |
| TLV3702IP | null |
| TLV3704IN | null |
| TLV4113IN | null |
| TLV5618AIP | null |
| TLV5620IN | null |
| TLV5628CN | null |
| TLV5628IN | null |
| TPS2815P | null |
| TPS3510P | null |
| TPS3513N | null |
| TPS7101QP | null |
| TPS71025P | null |
| TPS7148QP | null |
| TPS7150QP | null |
| TPS7201QP | null |
| TPS7225QP | null |
| TPS7230QP | null |
| TPS7233QP | null |
| TPS7301QP | null |
| TPS7325QP | null |
| TPS7330QP | null |
| TPS7350QP | null |
| TRS232EIN | null |
| TS12A4515P | null |
| UA9636ACP | null |
| UA9639CP | null |
| UCC27322P | null |
| UCC27323P | null |
| UCC27325P | null |
| UCC27423P | null |
| UCC27425P | null |
| UCC28050P | null |
| UCC28051P | null |
| UCC28511N | null |
| UCC28513N | null |

| | |
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| UCC28515N | null |
| UCC37323P | null |
| UCC37324P | null |
| UCC37325P | null |
| UCC38050P | null |
| UCC39002P | null |
| ULN2004AIN | null |

Technical details of this Product Change follow on the next page(s).

| | | | |
|--------------------|-------------|------------------|---------------|
| PCN Number: | 20170310000 | PCN Date: | March 31 2017 |
|--------------------|-------------|------------------|---------------|

| | | | |
|---------------|--|--|--|
| Title: | Qualification of an improved material set for select devices in the PDIP package | | |
|---------------|--|--|--|

| | | | |
|--------------------------|-----------------------------|--------------|------------------|
| Customer Contact: | PCN Manager | Dept: | Quality Services |
|--------------------------|-----------------------------|--------------|------------------|

| | | | |
|---|-------------|---------------------------------------|-----------------------|
| Proposed 1st Ship Date: | July 1 2017 | Estimated Sample Availability: | Provided upon Request |
|---|-------------|---------------------------------------|-----------------------|

| | | | |
|-------------------------------------|-----------------|-------------------------------------|---------------------------|
| Change Type: | | | |
| <input type="checkbox"/> | Assembly Site | <input type="checkbox"/> | Assembly Process |
| <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | Assembly Materials |
| <input type="checkbox"/> | Design | <input type="checkbox"/> | Electrical Specification |
| <input type="checkbox"/> | | <input type="checkbox"/> | Mechanical Specification |
| <input type="checkbox"/> | Test Site | <input type="checkbox"/> | Packing/Shipping/Labeling |
| <input type="checkbox"/> | | <input type="checkbox"/> | Test Process |
| <input type="checkbox"/> | Wafer Bump Site | <input type="checkbox"/> | Wafer Bump Material |
| <input type="checkbox"/> | | <input type="checkbox"/> | Wafer Bump Process |
| <input type="checkbox"/> | Wafer Fab Site | <input type="checkbox"/> | Wafer Fab Materials |
| <input type="checkbox"/> | | <input type="checkbox"/> | Wafer Fab Process |
| | | <input type="checkbox"/> | Part number change |

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of a new material set for the devices listed in pg 2 of this notification as follows:

| | Current | New |
|-------------------------|----------------|---------------------------|
| Mount Compound | 4042500 | 4147858 |
| Mold Compound | 4042503 | 4211880 |
| Leadframe Finish | NiPdAu | NiPdAu (Roughened) |

Reason for Change:

Continuity of Supply

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

None

Anticipated impact on Material Declaration

| | | | |
|--------------------------|---------------------------------------|-------------------------------------|--|
| <input type="checkbox"/> | No Impact to the Material Declaration | <input checked="" type="checkbox"/> | Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the TI ECO website . |
|--------------------------|---------------------------------------|-------------------------------------|--|

Changes to product identification resulting from this PCN:

Not Applicable

Product Affected

See Page 2

Qualification Report

UniBOM PDIP for TI Malaysia and TI Mexico

Product Attributes

| Attributes | Qual Device: L293DNE | Qual Device: LT1013CP | Qual Device: MSP430F2013IN | Qual Device: NE5532P | Qual Device: SN74HC595N | Qual Device: SN74HCT540N | Qual Device: SN74LS03N |
|---------------------|-------------------------|--------------------------|-------------------------------|-------------------------|----------------------------|-----------------------------|---------------------------|
| Assembly Site | FMX | FMX | MLA | FMX | MLA | MLA | MLA |
| Package Family | PDIP | PDIP | PDIP | PDIP | PDIP | PDIP | PDIP |
| Flammability Rating | UL 94 V-0 | UL 94 V0 | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 |
| Wafer Fab Supplier | SFAB | SFAB | TSMC-10 | SFAB | SFAB | SFAB | SFAB |
| Wafer Fab Process | J11 | J11 | TSMC EMB FLASH | J11 | 74HC | 74HC-NONEPI | J11 |

Product Attributes

| Attributes | Qual Device: TLC339IN | Qual Device: TPA3122D2N | Qual Device: TPS2041P | Qual Device: TS12A4514P | Qual Device: UCC37322P |
|---------------------|--------------------------|----------------------------|--------------------------|----------------------------|---------------------------|
| Assembly Site | FMX | MLA | FMX | FMX | FMX |
| Package Family | PDIP | PDIP | PDIP | PDIP | PDIP |
| Flammability Rating | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 | UL 94 V-0 |
| Wafer Fab Supplier | DFAB | UMC FAB8AB | DFAB | DFAB | DFAB |
| Wafer Fab Process | LINCMOS_5/5 | LBC5X | LBC3S | LBC3S | LBC3S |

- Qual Devices SN74LS03N, TPA3122D2N, L293DNE, LT1013CP, TLC339IN, UCC37322P, NE5532P, SN74HCT540N, SN74HC595N, TPS2041P, TS12A4514P, MSP430F2013IN are qualified at Not Classified Moisture Sensitivity Level

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

| Type | Test Name / Condition | Duration | Qual Device: L293DNE | Qual Device: LT1013CP | Qual Device: MSP430F2013IN | Qual Device: NE5532P | Qual Device: SN74HC595N | Qual Device: SN74HCT540N | Qual Device: SN74LS03N |
|------|------------------------------|-------------------------------|-------------------------|--------------------------|-------------------------------|-------------------------|----------------------------|-----------------------------|---------------------------|
| AC | Autoclave 121C | 96 Hours | 3/231/0 | - | 3/231/0 | - | 3/225/0 | 3/231/0 | 3/231/0 |
| ED | Electrical Characterization | Per Datasheet Parameters | - | - | - | - | Pass | - | - |
| FLAM | Flammability (UL 94V-0) | - | - | - | - | - | - | 3/15/0 | - |
| HAST | Biased HAST, 130C/85%RH | 96 Hours | - | - | - | 3/231/0 | - | - | - |
| HTOL | Life Test, 150C | 300 Hours | - | - | - | 3/231/0 | - | - | - |
| HTSL | High Temp Storage Bake 170C | 420 Hours | 3/231/0 | - | 3/231/0 | - | 3/231/0 | 3/231/0 | 3/231/0 |
| LI | Lead Fatigue | Leads | 3/66/0 | - | 3/45/0 | 3/66/0 | 3/45/0 | 3/45/0 | 3/45/0 |
| LI | Lead Pull to Destruction | Leads | 3/144/0 | - | 3/126/0 | 3/72/0 | 3/144/0 | 3/180/0 | 3/126/0 |
| MQ | Manufacturability (Assembly) | (per mfg. Site specification) | Pass | Pass | Pass | Pass | Pass | Pass | Pass |
| PKG | Lead Finish Adhesion | Leads | 3/45/0 | - | 3/45/0 | 3/45/0 | 3/45/0 | 2/30/0 | 3/45/0 |
| SD | Solderability | 8 Hours Steam Age | 3/66/0 | - | 3/66/0 | 3/66/0 | 3/66/0 | 3/66/0 | 3/66/0 |
| TC | Temperature Cycle, -65/150C | 500 Cycles | Results April 15 2017 | 3/231/0 | 3/231/0 | - | 3/231/0 | 3/231/0 | 3/231/0 |

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

| Type | Test Name / Condition | Duration | Qual Device: TLC339IN | Qual Device: TPA3122D2N | Qual Device: TPS2041P | Qual Device: TS12A4514P | Qual Device: UCC37322P |
|------|------------------------------|-------------------------------|--------------------------|----------------------------|--------------------------|----------------------------|---------------------------|
| AC | Autoclave 121C | 96 Hours | 3/231/0 | 3/231/0 | - | 1/77/0 | 3/231/0 |
| ED | Electrical Characterization | Per Datasheet Parameters | - | - | - | - | - |
| FLAM | Flammability (UL 94V-0) | - | - | - | - | - | 3/15/0 |
| HAST | Biased HAST, 130C/85%RH | 96 Hours | - | - | - | - | - |
| HTOL | Life Test, 150C | 300 Hours | - | - | - | - | - |
| HTSL | High Temp Storage Bake 170C | 420 Hours | 3/231/0 | 3/231/0 | - | 1/77/0 | 3/231/0 |
| LI | Lead Fatigue | Leads | 3/45/0 | 3/45/0 | - | - | 3/45/0 |
| LI | Lead Pull to Destruction | Leads | 3/126/0 | 3/180/0 | - | - | 3/70/0 |
| MQ | Manufacturability (Assembly) | (per mfg. Site specification) | Pass | Pass | Pass | Pass | Pass |
| PKG | Lead Finish Adhesion | Leads | 3/45/0 | 3/45/0 | - | - | 3/45/0 |
| SD | Solderability | 8 Hours Steam Age | 3/66/0 | 3/66/0 | - | - | 3/66/0 |
| TC | Temperature Cycle, -65/150C | 500 Cycles | 3/231/0 | 3/231/0 | 3/231/0 | 1/77/0 | 3/231/0 |

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JEDEC47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles
Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free (through hole) and Green

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

| Location | E-Mail |
|-----------------|--|
| USA | PCNAmericasContact@list.ti.com |
| Europe | PCNEuropeContact@list.ti.com |
| Asia Pacific | PCNAsiaContact@list.ti.com |
| Japan | PCNJapanContact@list.ti.com |